

robustOS

R1520G-OG

IP67 rated outdoor router

4G router with Wi-Fi & Ethernet



INTRODUCTION

The R1520G-OG is an IP67 rated outdoor router (including TPH-R1520 and R1520-4L Global) that is ideal for adding Wi-Fi internet access at events, on campuses or when a rugged housing is required for indoor deployments.

Around 50% of the space inside the enclosure is available for customers to add their own electronics providing a semi-bespoke solution for outdoor deployments of industrial equipment. OEM branding of the enclosure is possible for high volume projects.

Some of the advanced features include:

Smart Roaming

A unique network selection algorithm that intelligently selects networks when using 3G/4G roaming SIM cards - providing maximum reliability.

RobustVPN

A highly flexible hosted VPN service that allows customers to make an inbound connection to the router and attached equipment from anywhere in the world.

Power over Ethernet

Ethernet Port 0 supports PoE-PD to make installation easy – just a single M12-terminated cable is required to get power + data to and from the box.

RCMS (Robustel Cloud Manager Service)

Very high-quality Microsoft Azure based router management platform available for simple estate management. Basic version completely free – advanced functions are pay as you go.

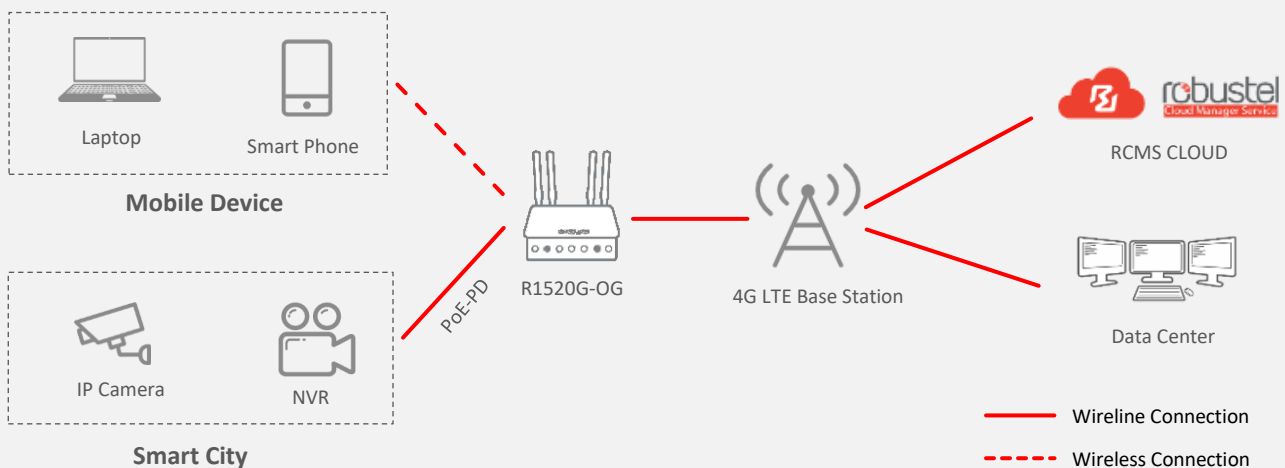
* Please see this page for R1520-4L Global certification details:

www.robustel.com/en/product/r1520-global-iot-router/

KEY FEATURES

- IP67 ingress protection withstanding water, dust, and other extreme weather conditions
- Space inside enclosure for user-specific electronics to be added
- Globally certified*
- Supports dual-SIM cellular, Wi-Fi and Ethernet
- Fully programmable router
- RCMS – free, high quality cloud platform for remote management
- Supports SMS commands for remote configuration/recovery in fault conditions
- Captive Portal function optional
- VPN Support includes OpenVPN, IPSEC, Wireguard + more
- Custom branding for high volume projects

APPLICATION EXAMPLE



SPECIFICATIONS

Cellular Interface

Number of antennas	2
Connector	M16, N female
SIM	2, Mini-SIM or eSIM (Optional)

Ethernet Interface

Number of external ports	1 x 10/100 Mbps Ethernet supporting 802.3af/at PoE-PD (ETH0 only)
Connector	M12 A-coded, 8PIN
Number of internal ports	4 x 10/100 Mbps Ethernet
Magnet isolation protection	1.5 KV

Wi-Fi Interface

Number of antennas	2
Connector	M16, N female
Standards	802.11 b/g/n, supports AP and Client modes
Frequency bands	2.4 GHz
Security	WEP, WPA, WPA2
Encryption	64/128 AES, TKIP
Data speed	2 x 2 MIMO, 300 Mbps

App Center (Available Apps for RobustOS)

Apps*	L2TP, PPTP, DMVPN, VRRP, QoS, Captive Portal, WLAN Multi AP, SNMP, Language, RCMS
-------	---

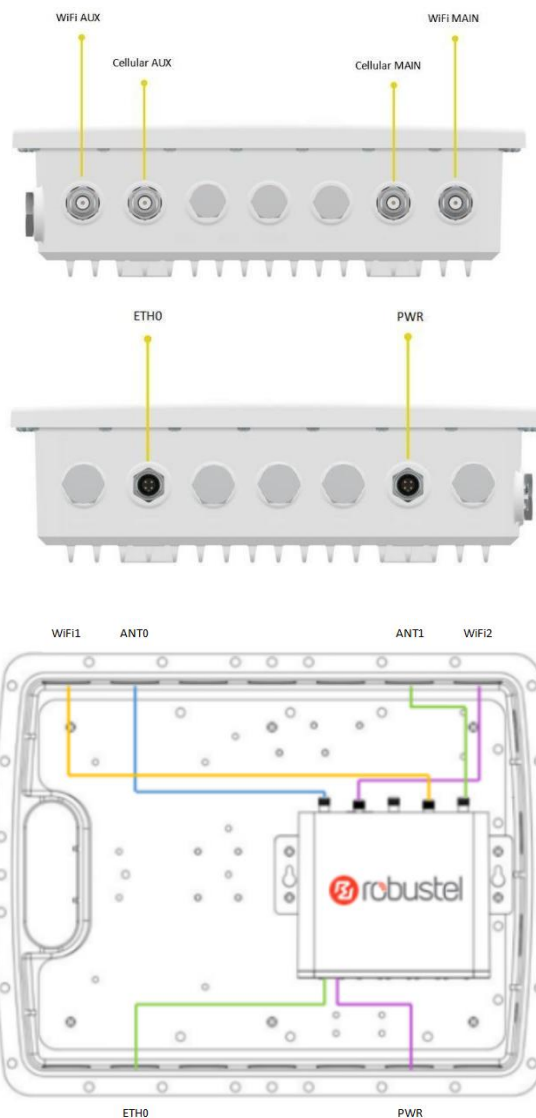
*Request on demand. For more Apps please visit www.robustel.com.

Power Supply and Consumption

Connector	M12 A-coded PoE-PD or optional DC via 3-pin connector
Input voltage via optional DC	9 ~ 36 V DC

Physical Characteristics

Ingress protection	IP67
Housing & Weight	Plastic, 2008g including R1520, excludes antennas and mounting hardware
Dimensions	310 x 245 x 93.4 mm
Installation	Wall mounting and pole mounting
Operating Temperature	-25 ~ +70 °C
Storage Temperature	-40 ~ +85 °C
Relative Humidity	5 ~ 95% RH



ORDERING INFORMATION

Model	PN	Interface	Frequency Band*	Certification* (In progress)
TPH-R1520	B021018	2 x Cellular antenna 2 x Wi-Fi antenna 1 x Ethernet (PoE-PD) 1 x Power supply	N/A	RoHS, WEEE
R1520-4L Global	B056701	N/A	4G (LTE FDD): B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28 4G (LTE TDD): B38/B39/B40/B41 3G: B1/B2/B4/B5/B6/B8/B19 2G: 850/900/1800/1900MHz	RCM, CE, FCC, CCC, ICASA, IC, TRA, NTC, AT&T, IMDA, NBTC, SIRIM, MTC, PTCRB, E13, CRC, SUBTEL, Enacom, Anatel*, URSEC*, KC*

*For more information about 4G frequency bands in different countries, please contact your Robustel sales representative.

Note: TPH-R1520 (B021018) and R1520-4L Global (B056701) should be ordered together. Robustel will install TPH-R1520 and R1520-4L Global in advance for shipment.

PN	Materials	Descriptions
E003100	Fiberglass-reinforced cellular antenna	200mm, 800-2700 MHz, 3/4.5 dBi
E003101	Fiberglass-reinforced Wi-Fi antenna	200mm, 2400-2483/5725-5850 MHz, 3.5/5 dBi
E005009	3-pin M12 power supply cable	Length: 2 meters, black, IP67
E005007	8-pin M12 to RJ45 Ethernet cable	Length: 2 meters, black, wire diameter: 0.5mm, for PoE
E015109	Wall mounting kit	Dimensions & Material: 240 x 175 x 1.5 mm, aluminum plate
E005032	50~120 mm pole mounting kit	50~120 mm diameter adjustable, 0.6 mm thickness, 12 mm width. Material: stainless steel
E005033	100~230 mm pole mounting kit	100~230 mm diameter adjustable, 0.6 mm thickness, 12 mm width. Material: stainless steel
E005034	200~300 mm pole mounting kit	200~300 mm diameter adjustable, 0.6 mm thickness, 12 mm width. Material: stainless steel